

FIG. 1

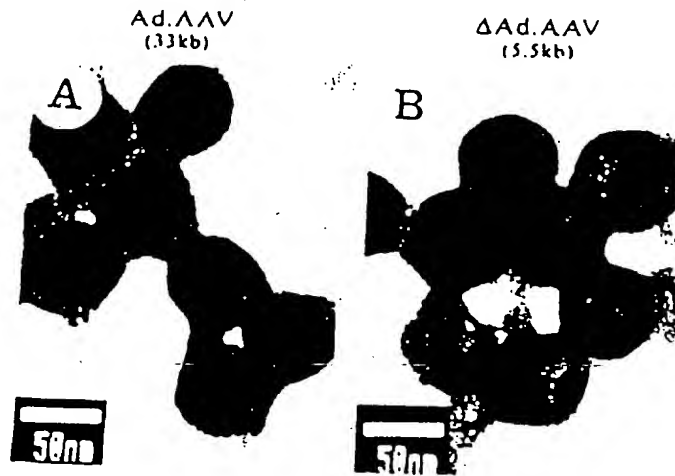


FIG. 2

0980564.J001

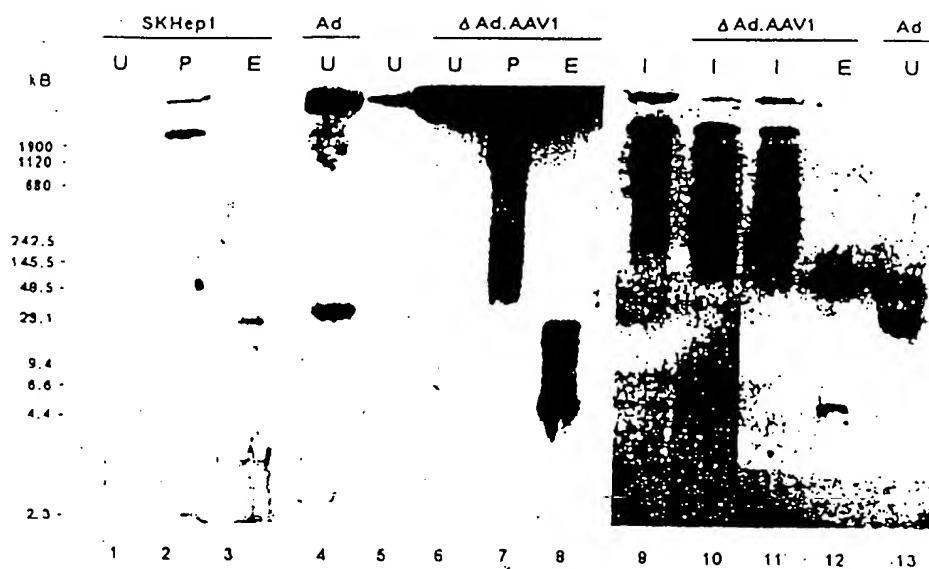
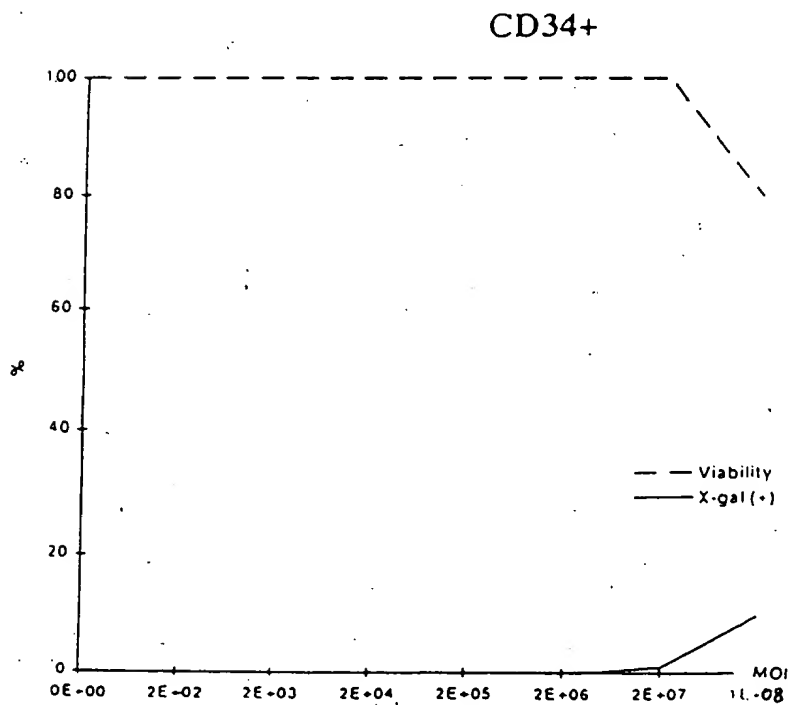
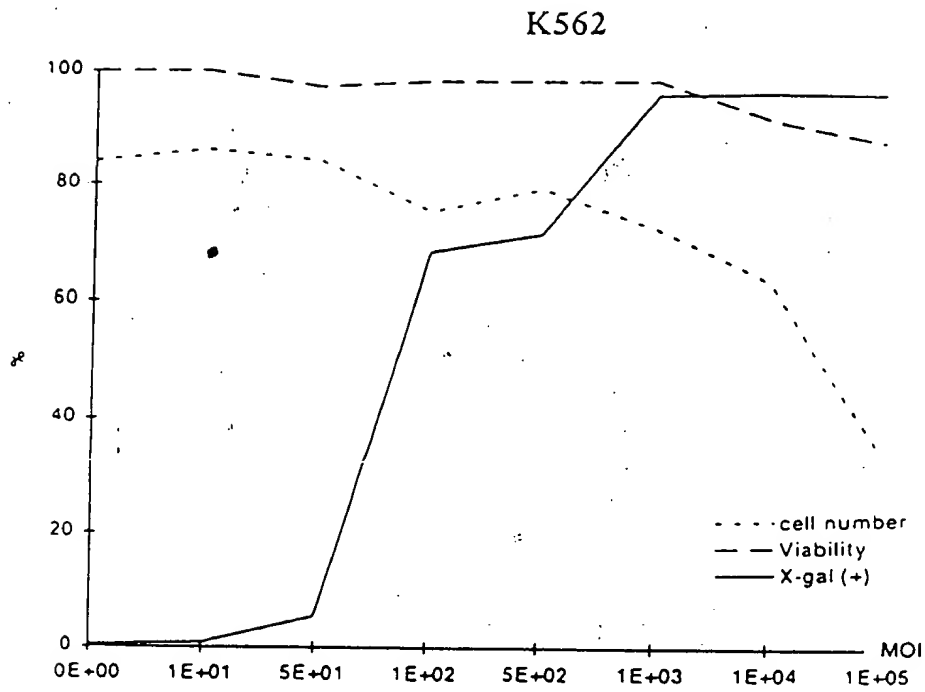


FIG. 3

0980564-13001



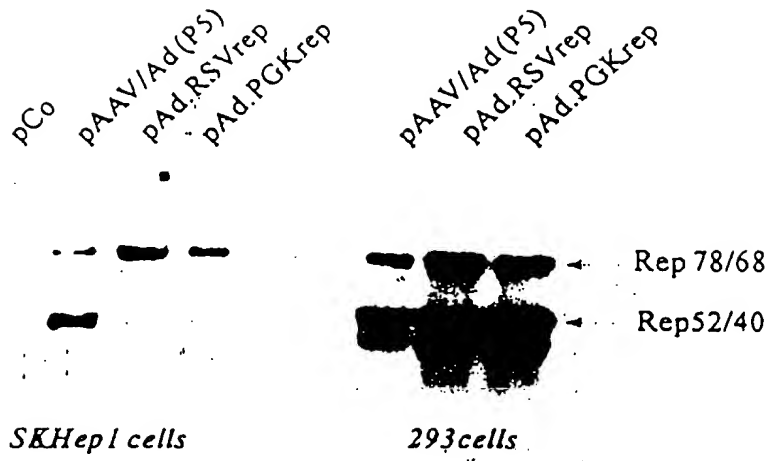
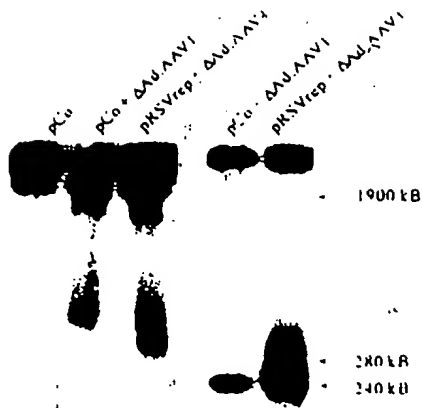


FIG. 5



• SI:AP probe • $\Delta\Delta\Delta\Delta\Delta$ probe

FIG. 6

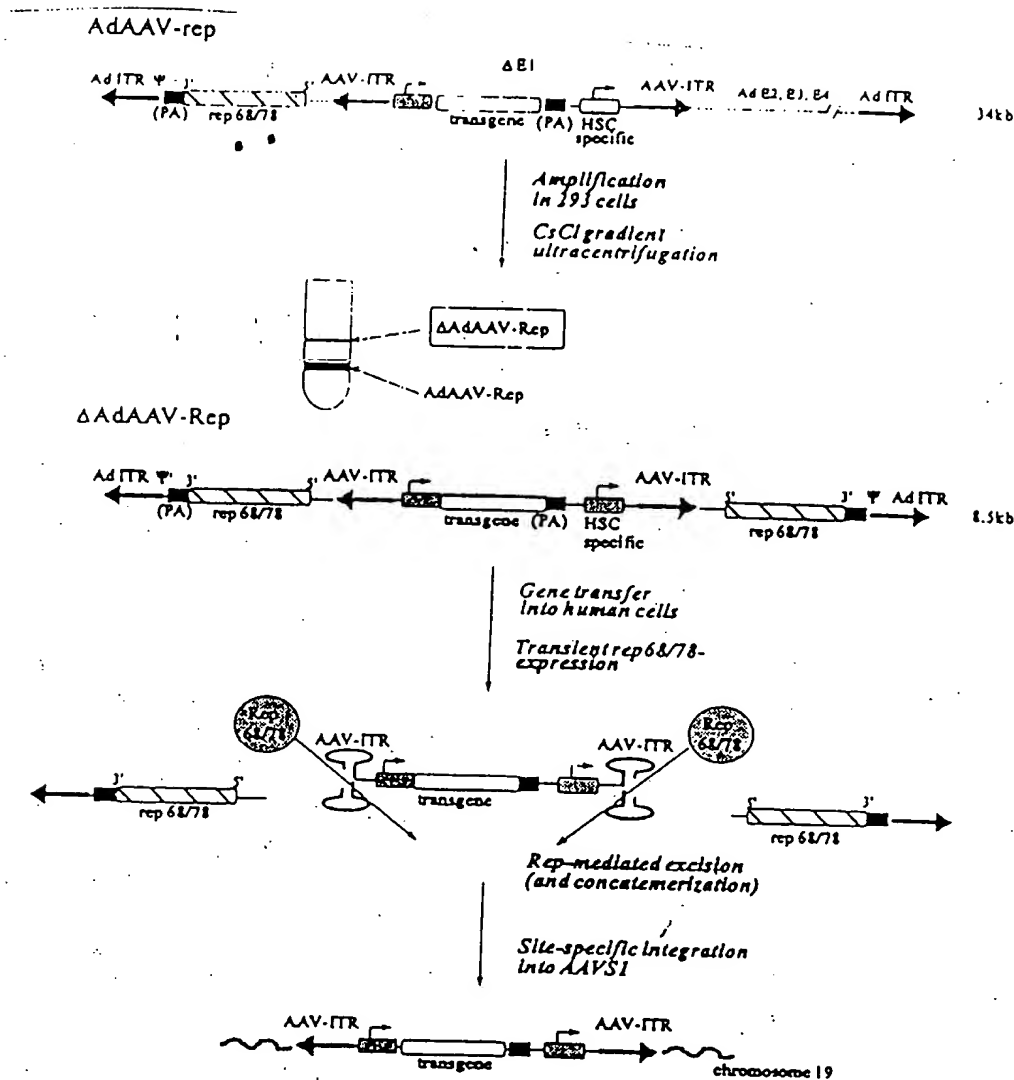
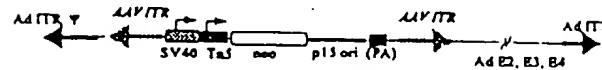


FIG. 7

rAAV-SNori
3.5kb (ss)



Ad.AAV-SNori ITR
35 kB (ds)



Ad.SNori
35 kB (ds)



ΔAd.AAVSNori
4.8 kB (ds)

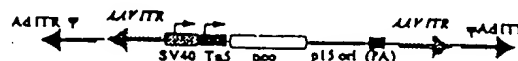


FIG. 8A

Integrated ΔAd.AAV-SNori

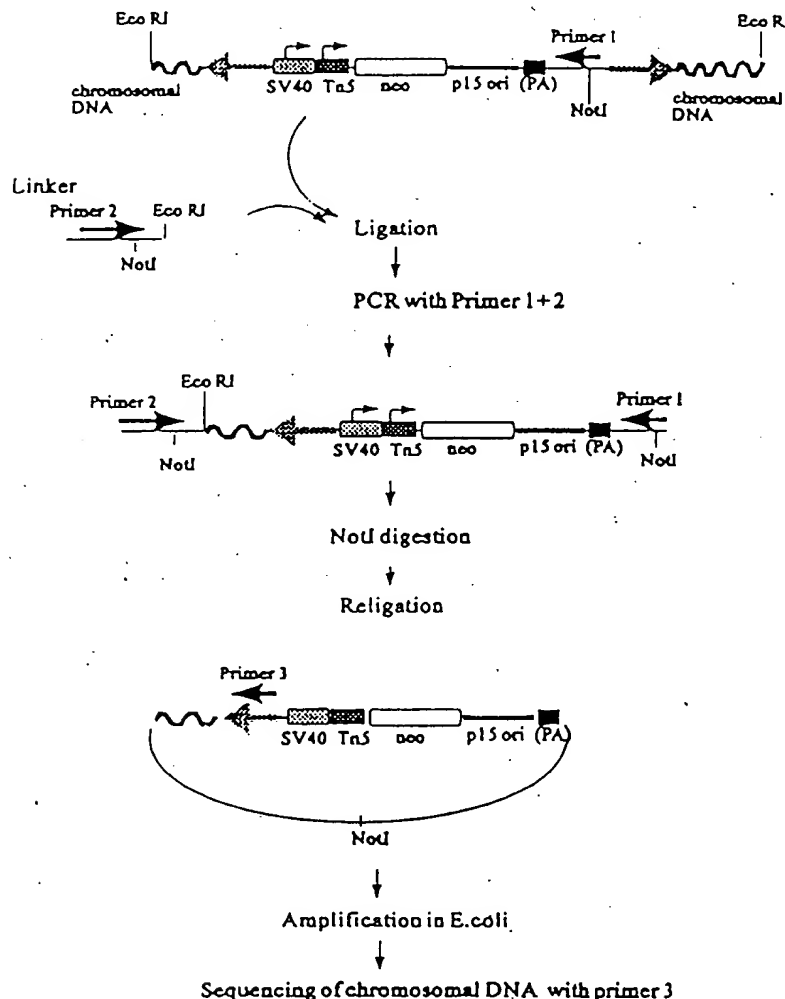


FIG. 8B

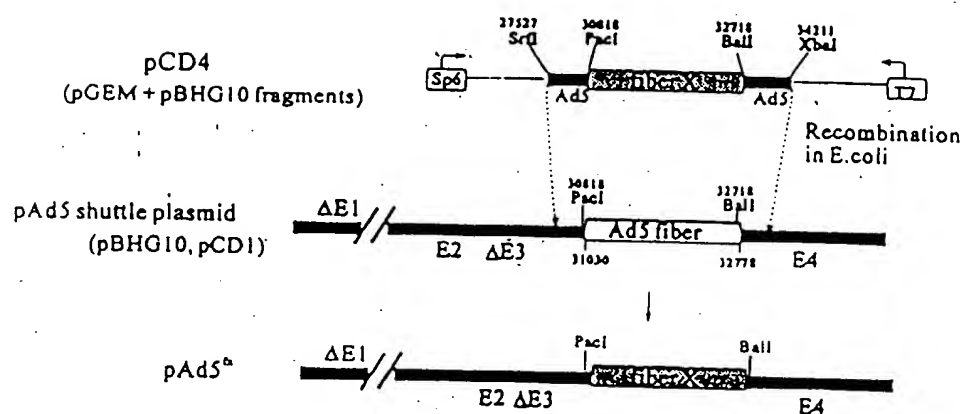


FIG. 9

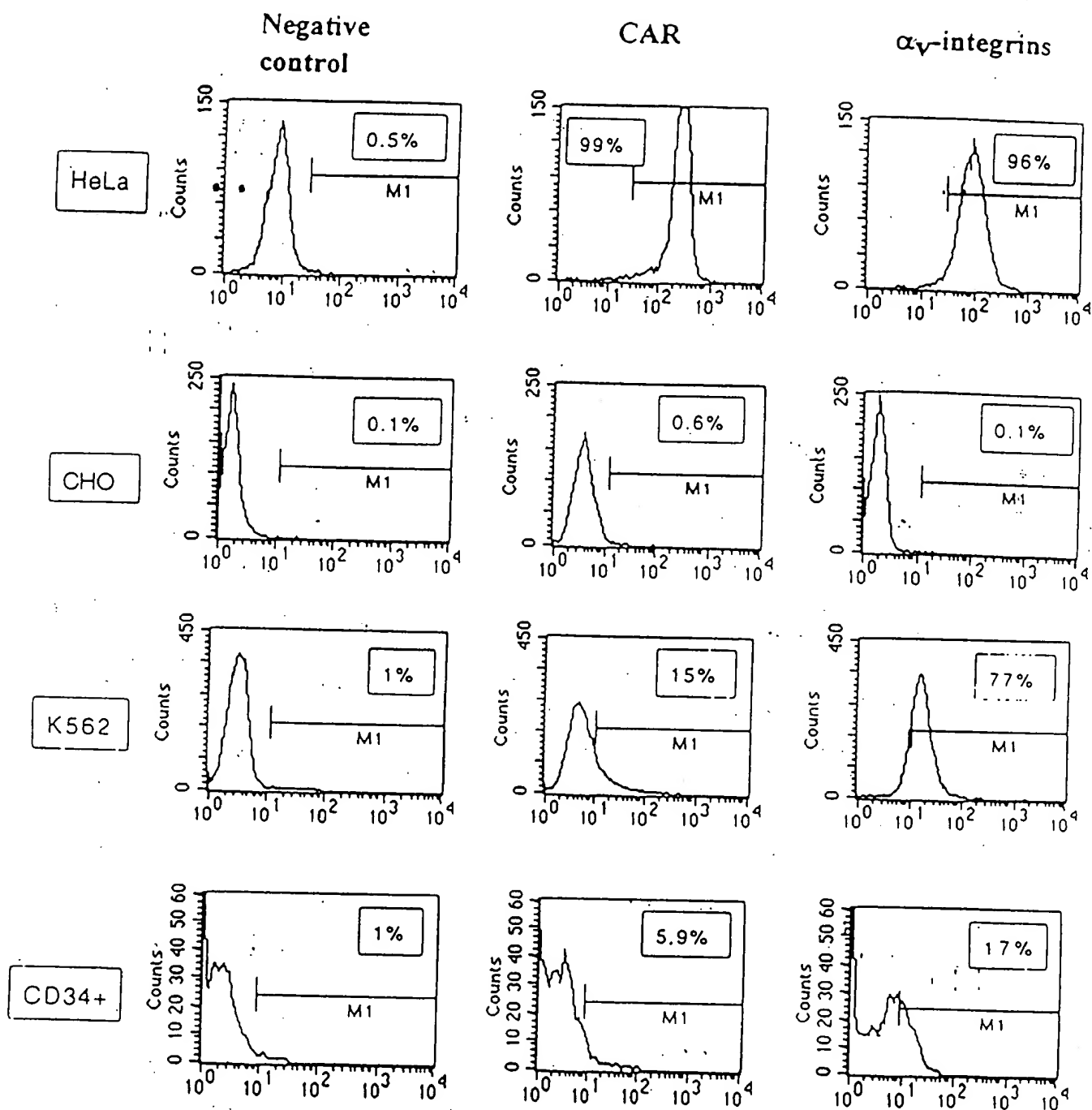


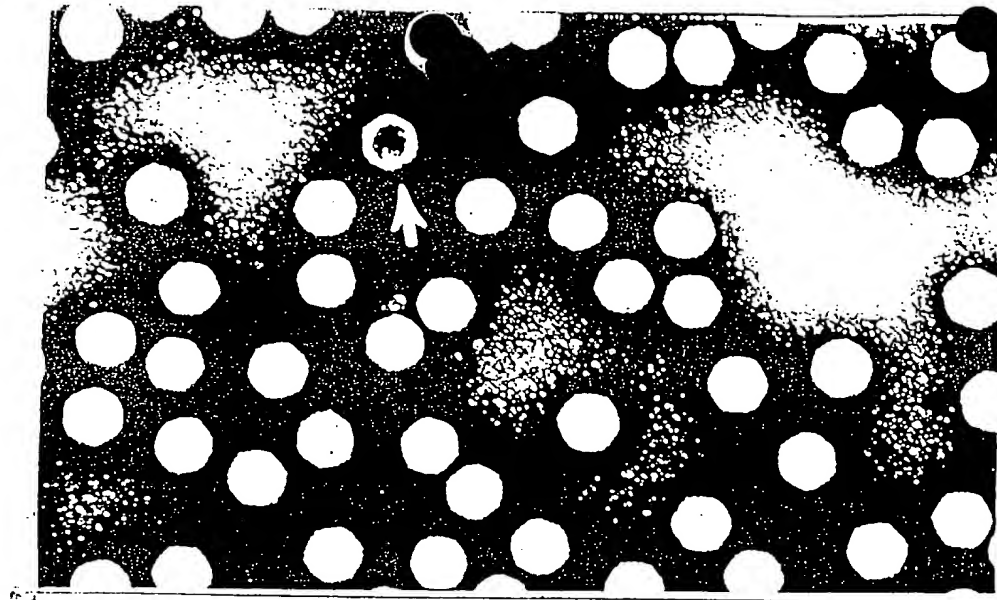
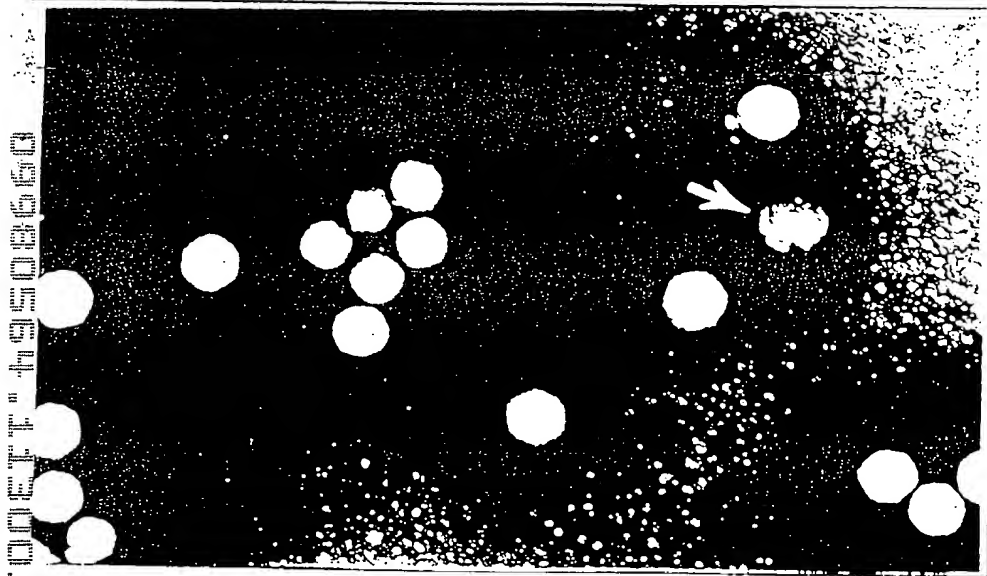
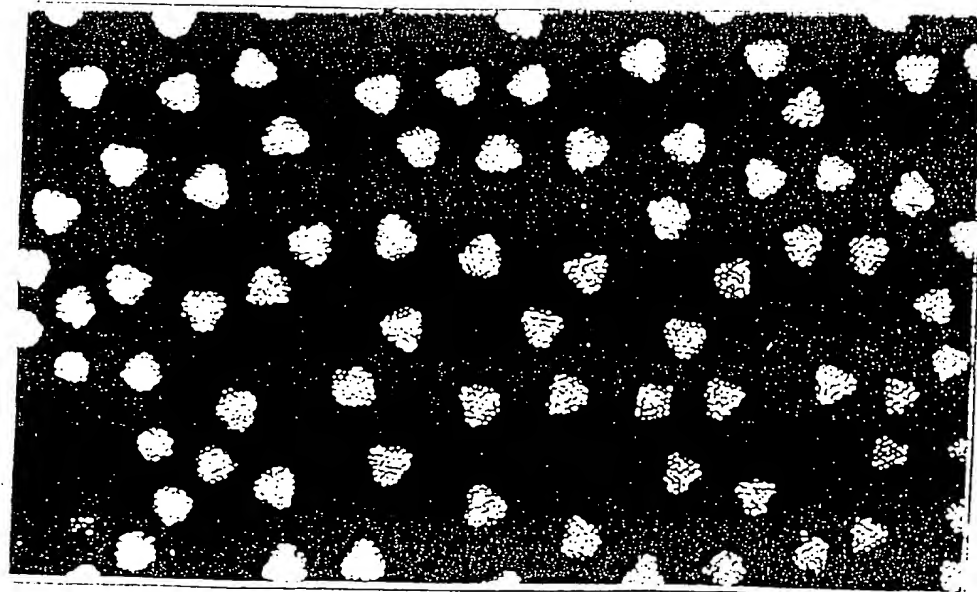
FIG. 10

Ad 35

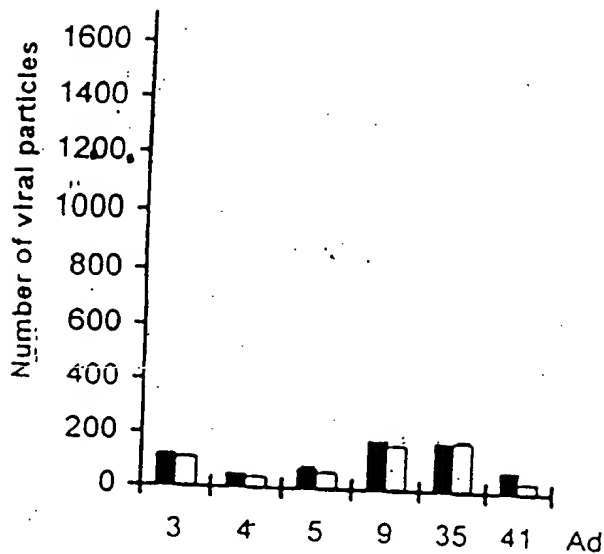
Ad 19

Ad 5

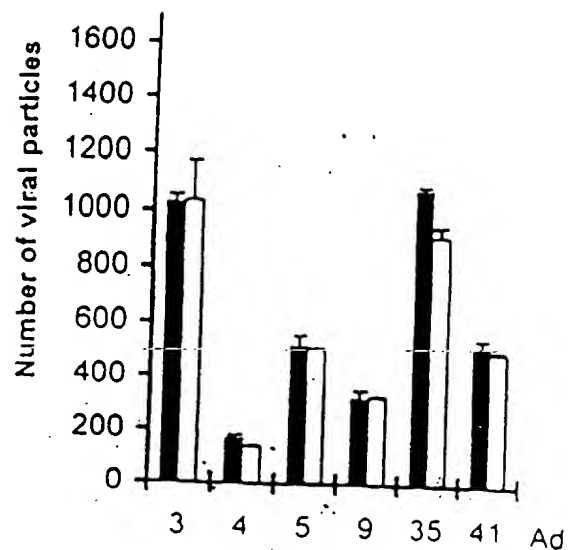
Fig. 11



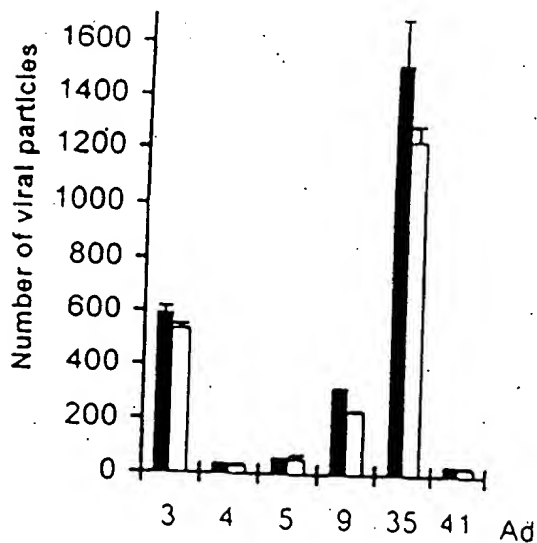
CHO



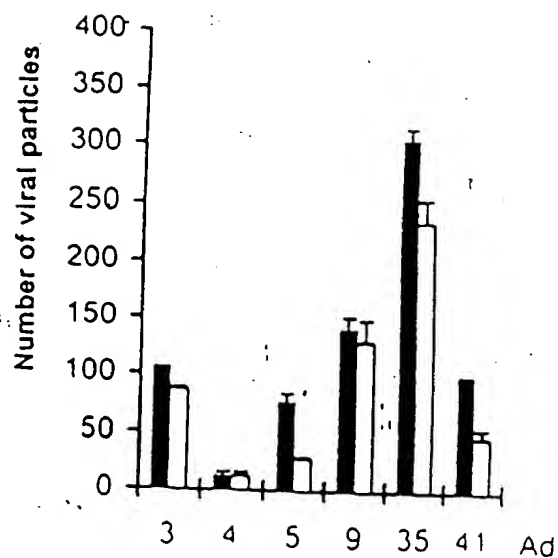
HeLa



K-562



CD34+



■ Attachment

□ Internalization

FIG. 12

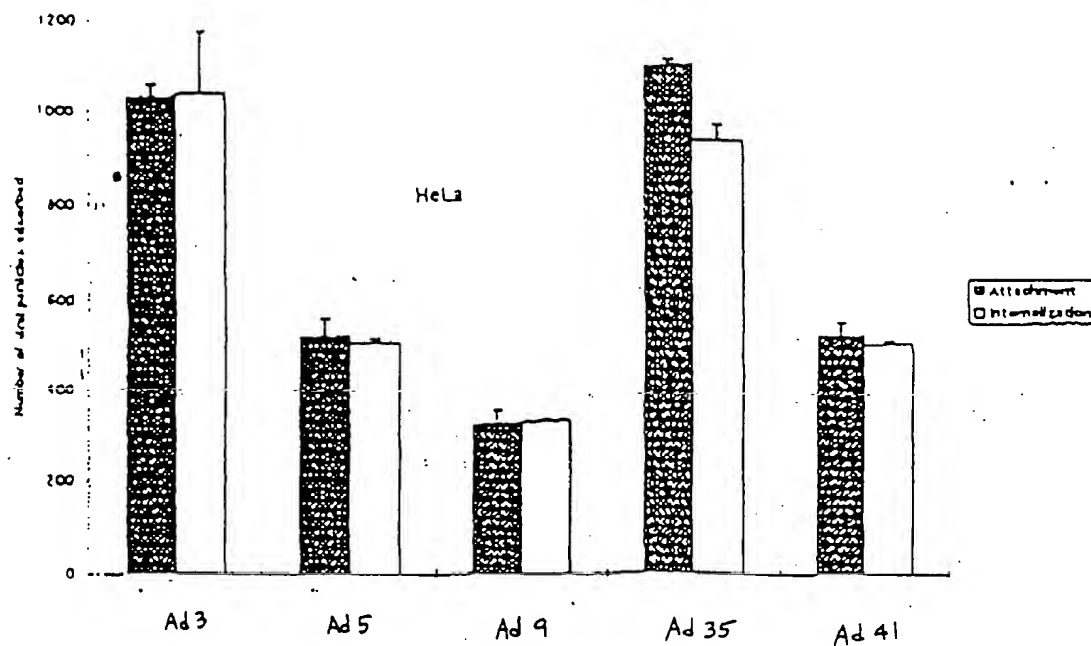
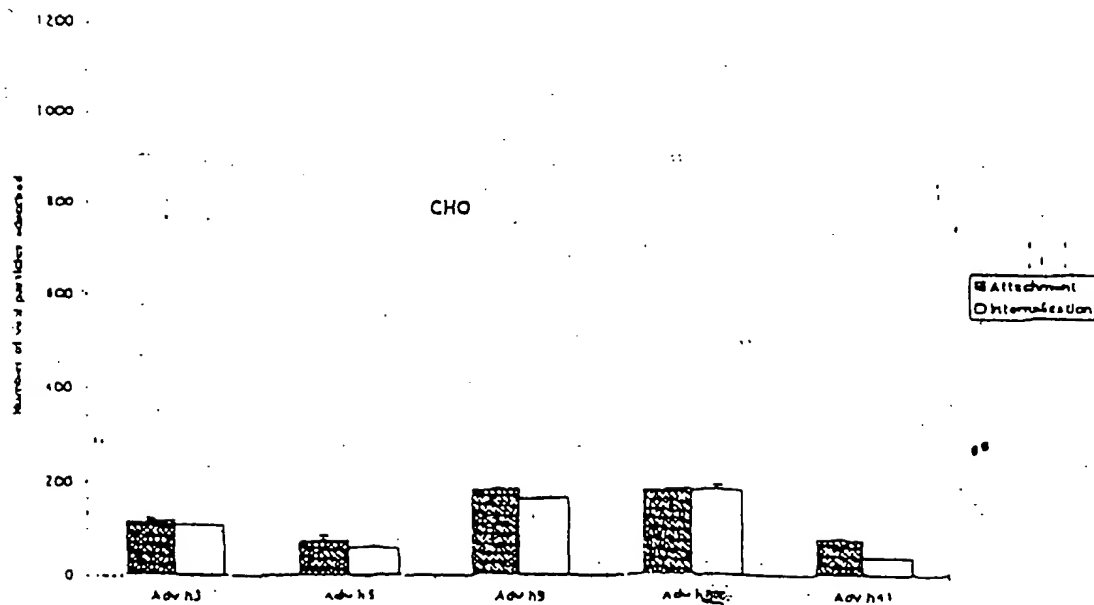
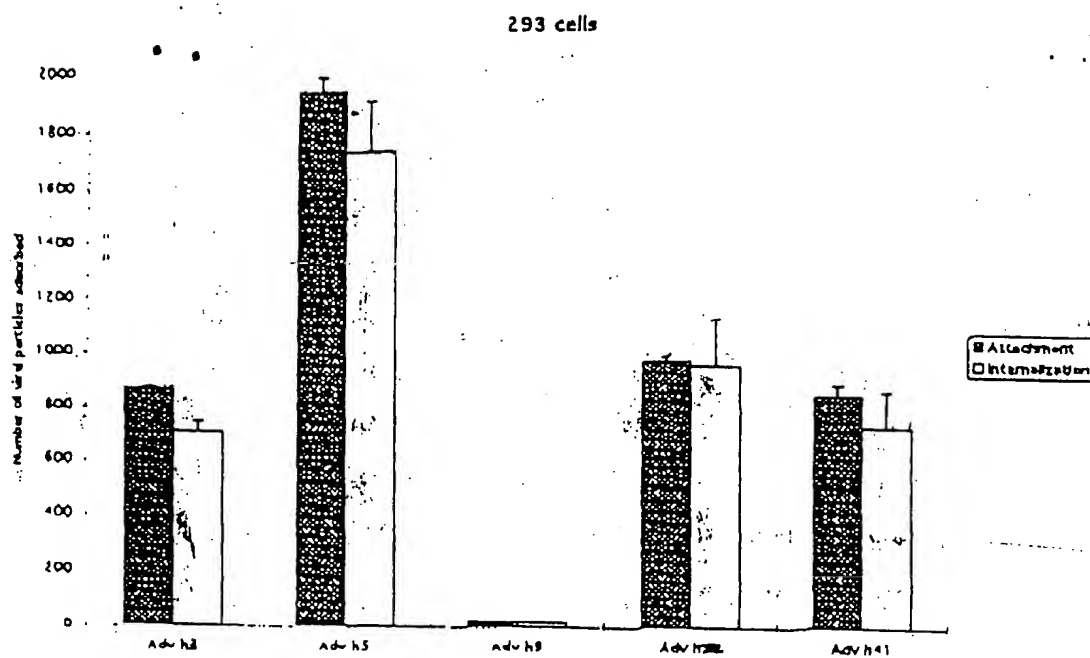


FIG. 13 A



35

FIG. 13 B



35

FIG. 13C

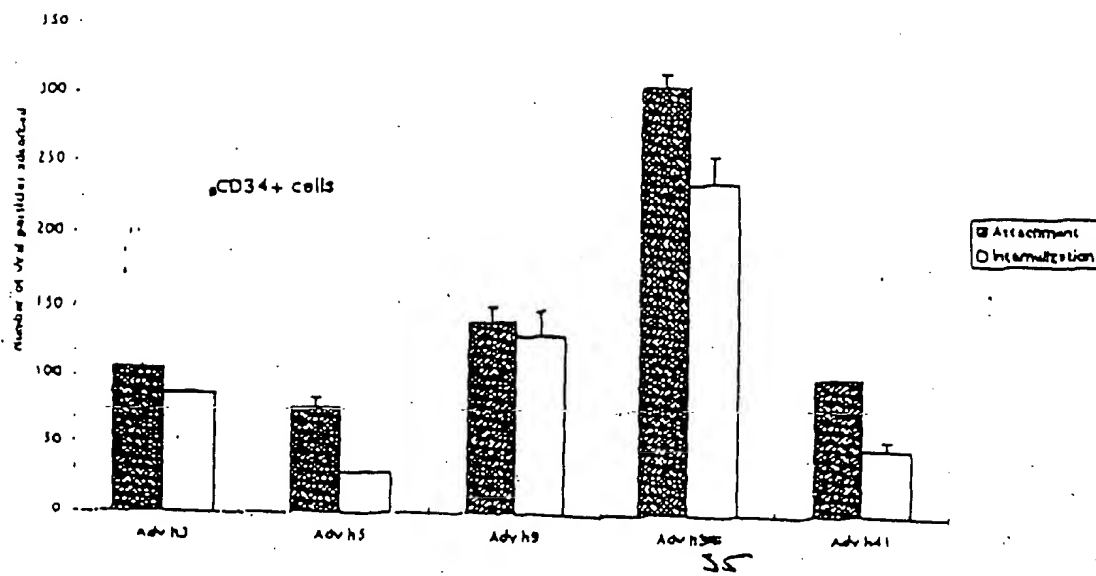


FIG 14A

K-562

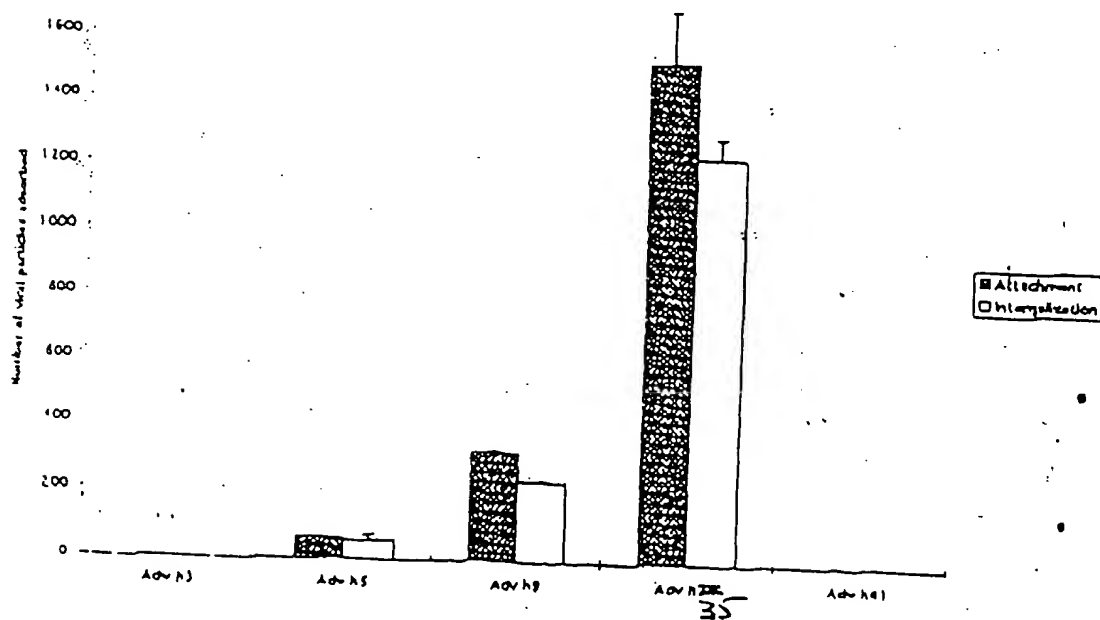


FIG 14B

A. K562 cells

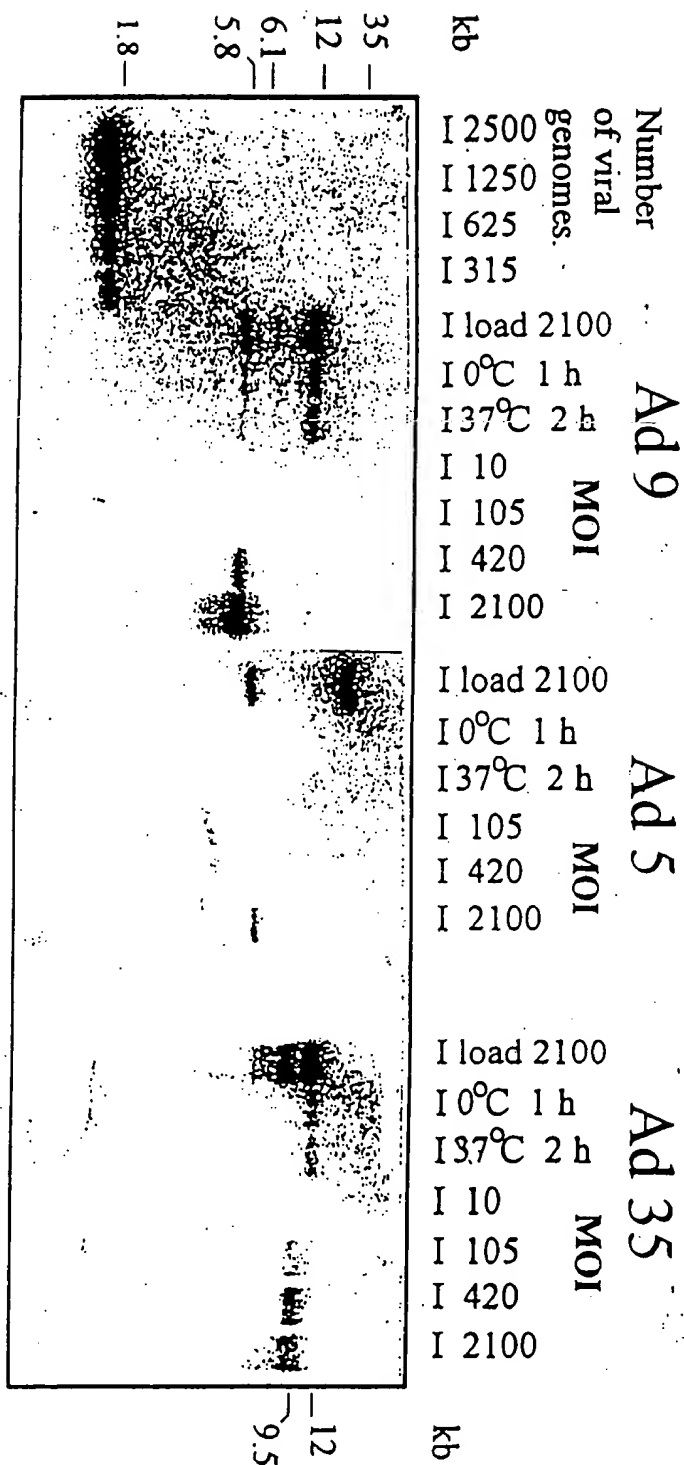
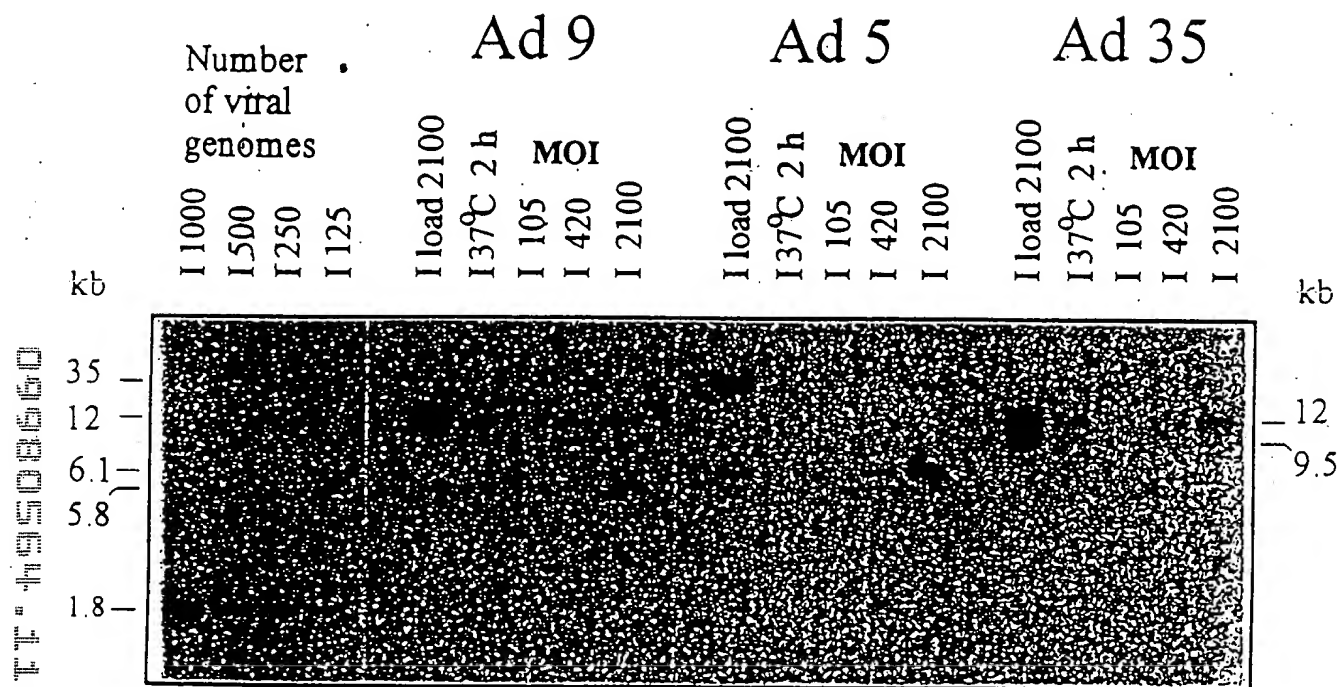


FIG. 15

09980564.113001

B. CD 34+ cells



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C.

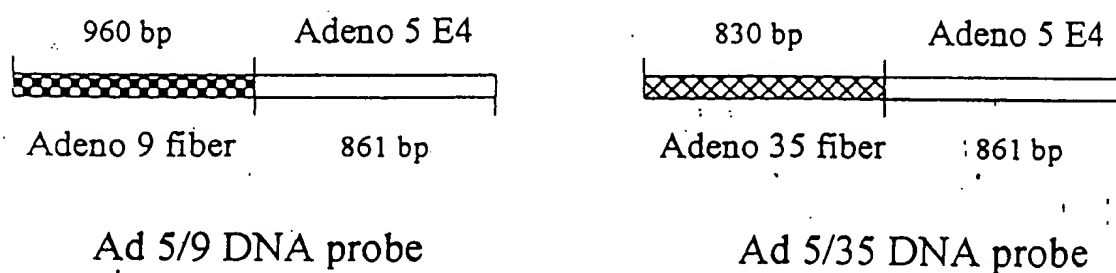
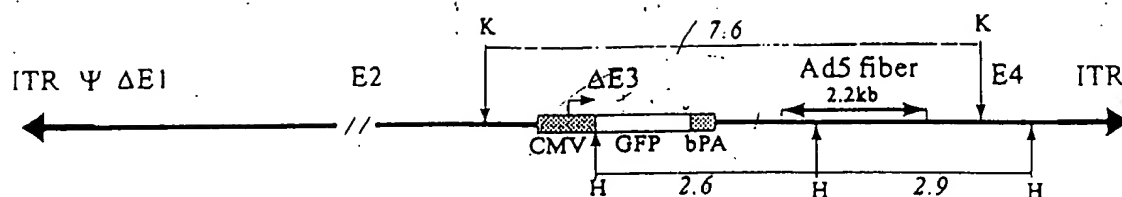


FIG. 15 continued

Ad5GFP



Ad5GFPF35

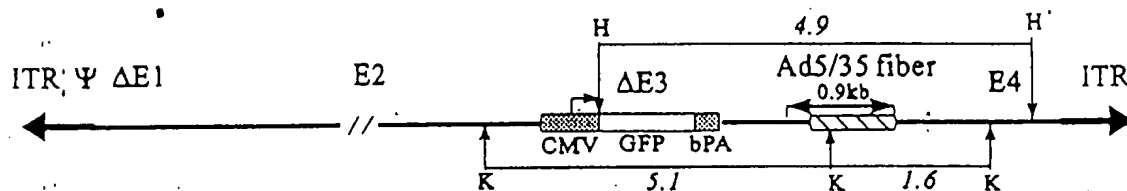


FIG 16A

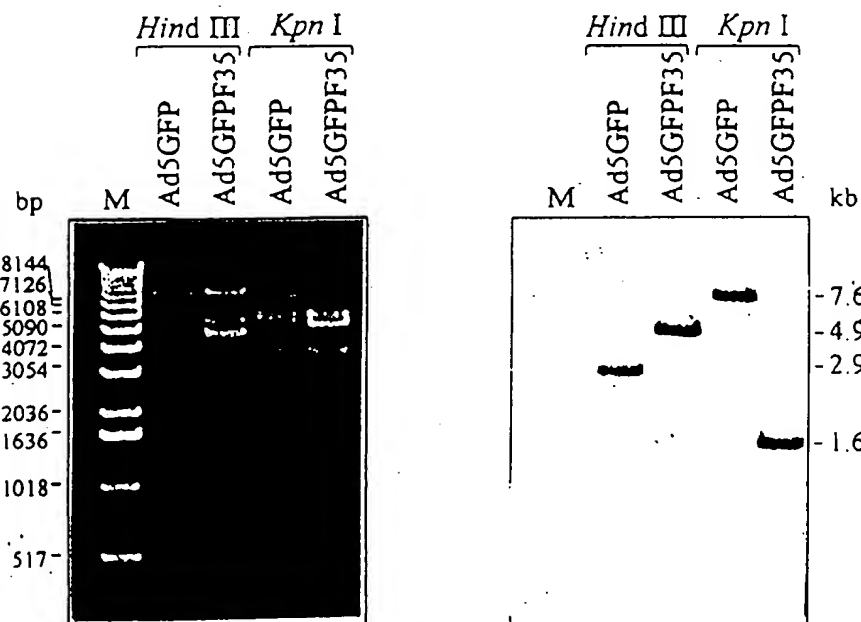
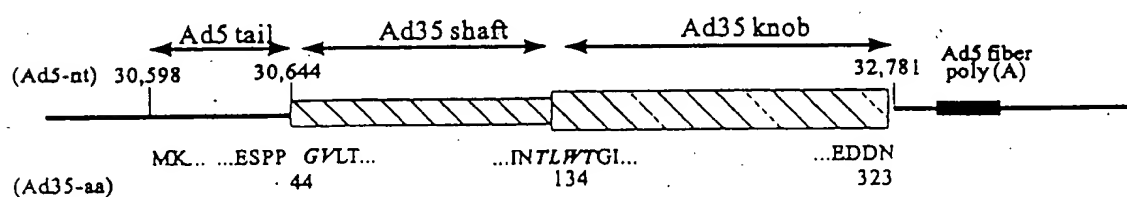
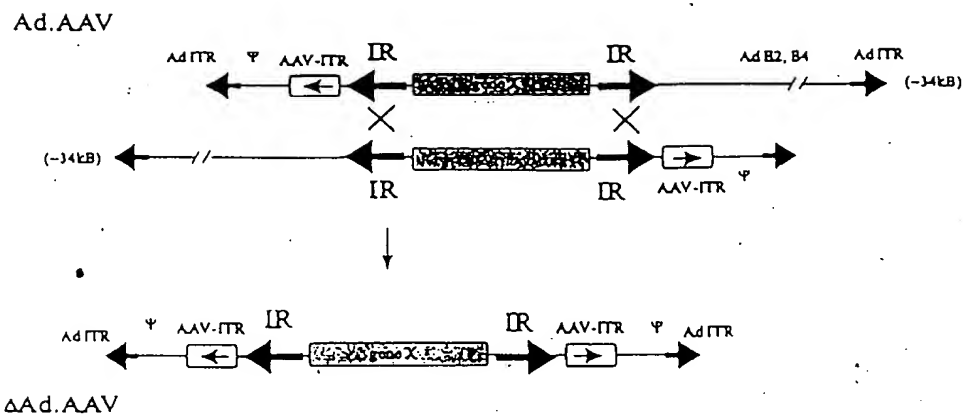


FIG. 16B

FIG. 16

A



B

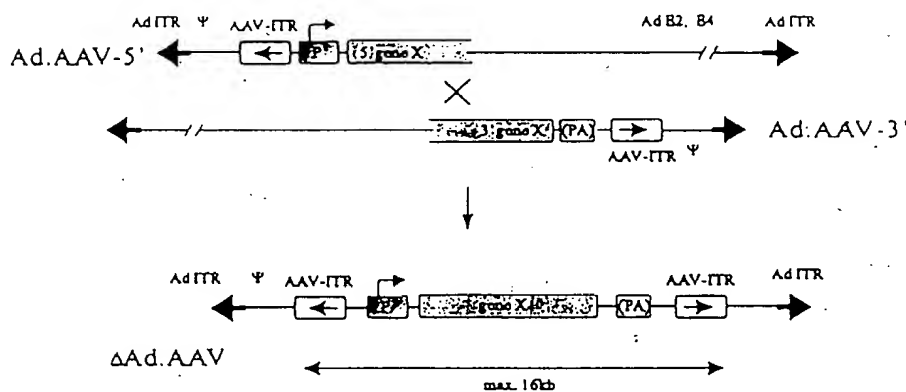


FIG. 17

Ad5.GFP/E35

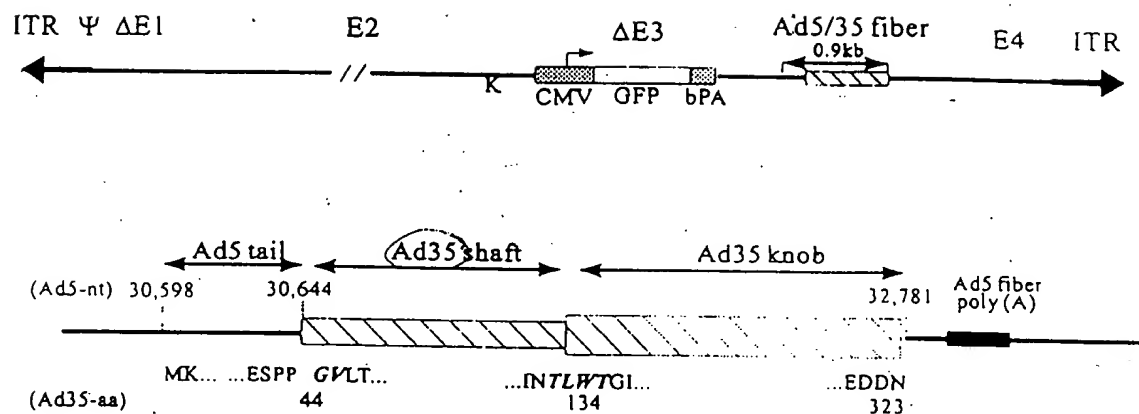
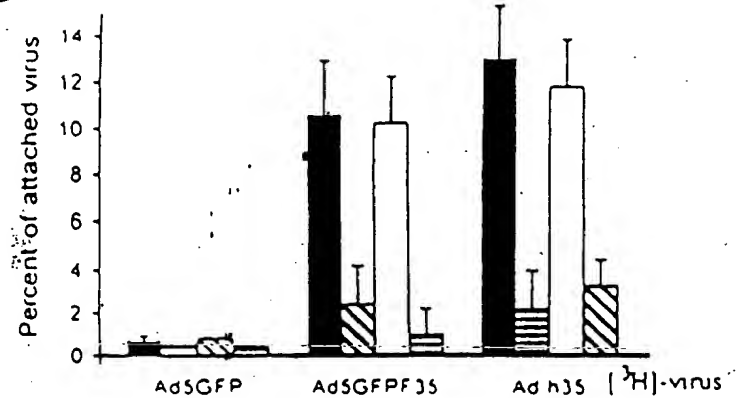


FIG. 18

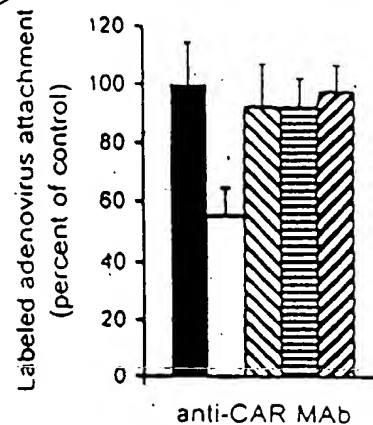
A

Attachment.



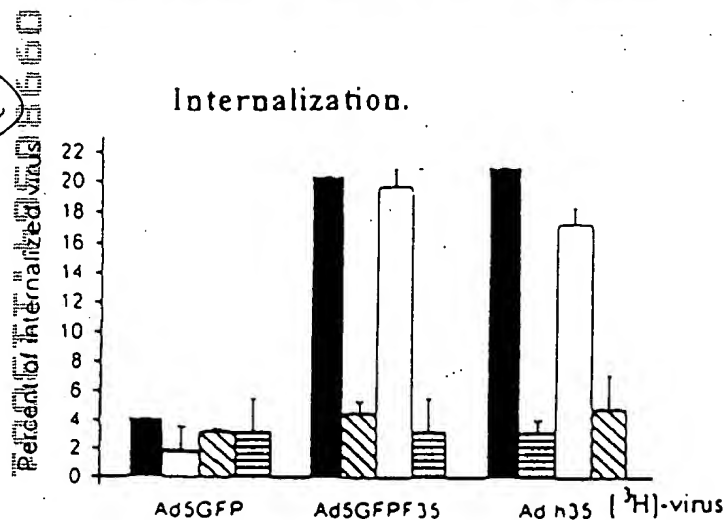
B

Attachment.



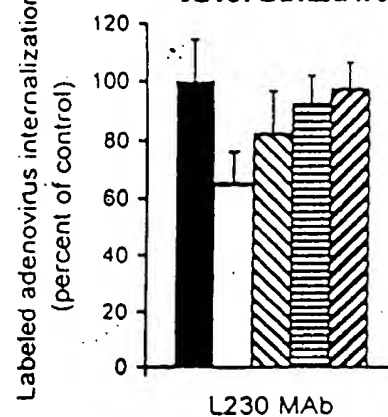
C

Internalization.



D

Internalization.



■ Control □ Ad5GFP ▨ Ad5GFPF35 ▩ Ad 35 ▩ Ad 3

FIG. 19

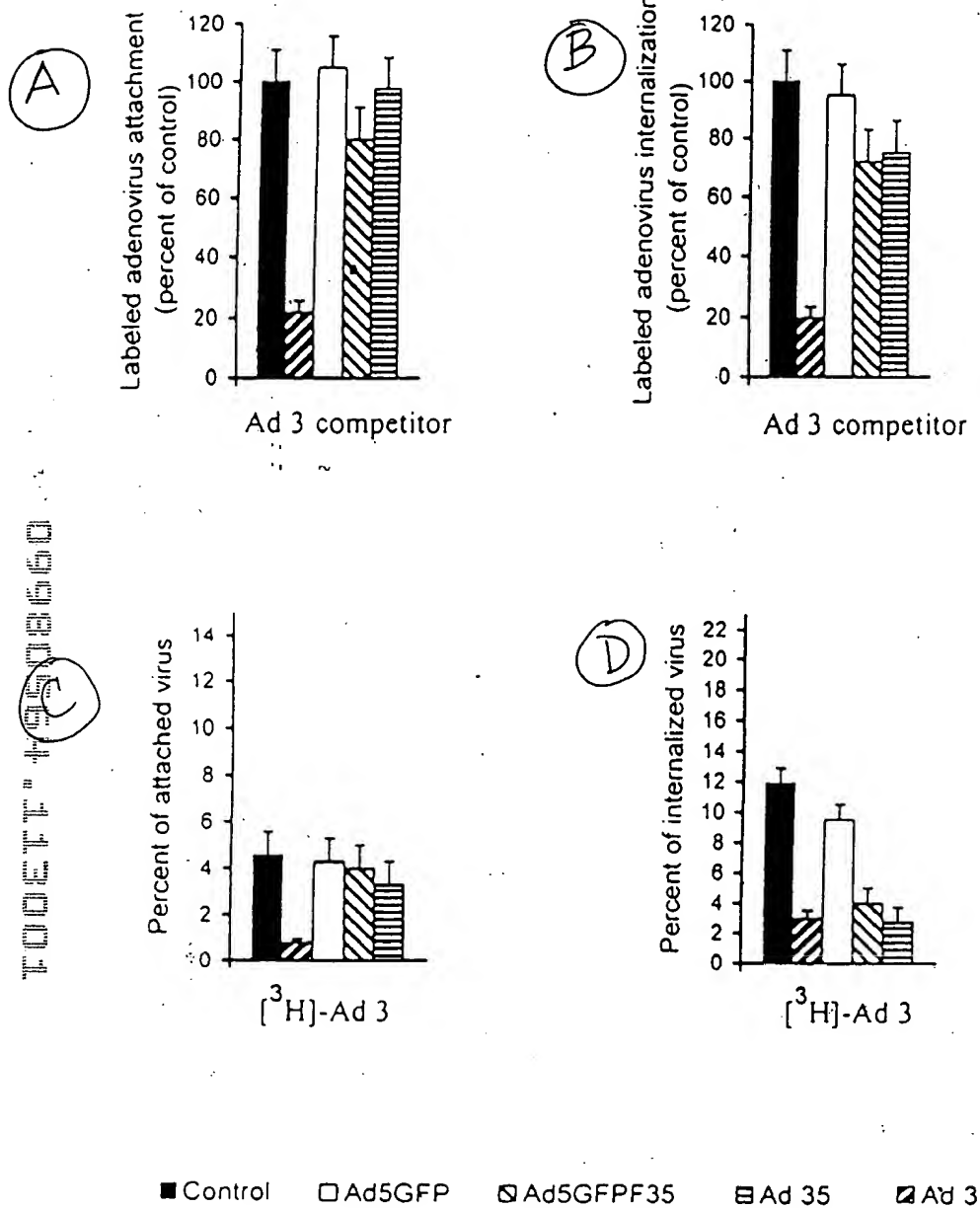


FIG. 20

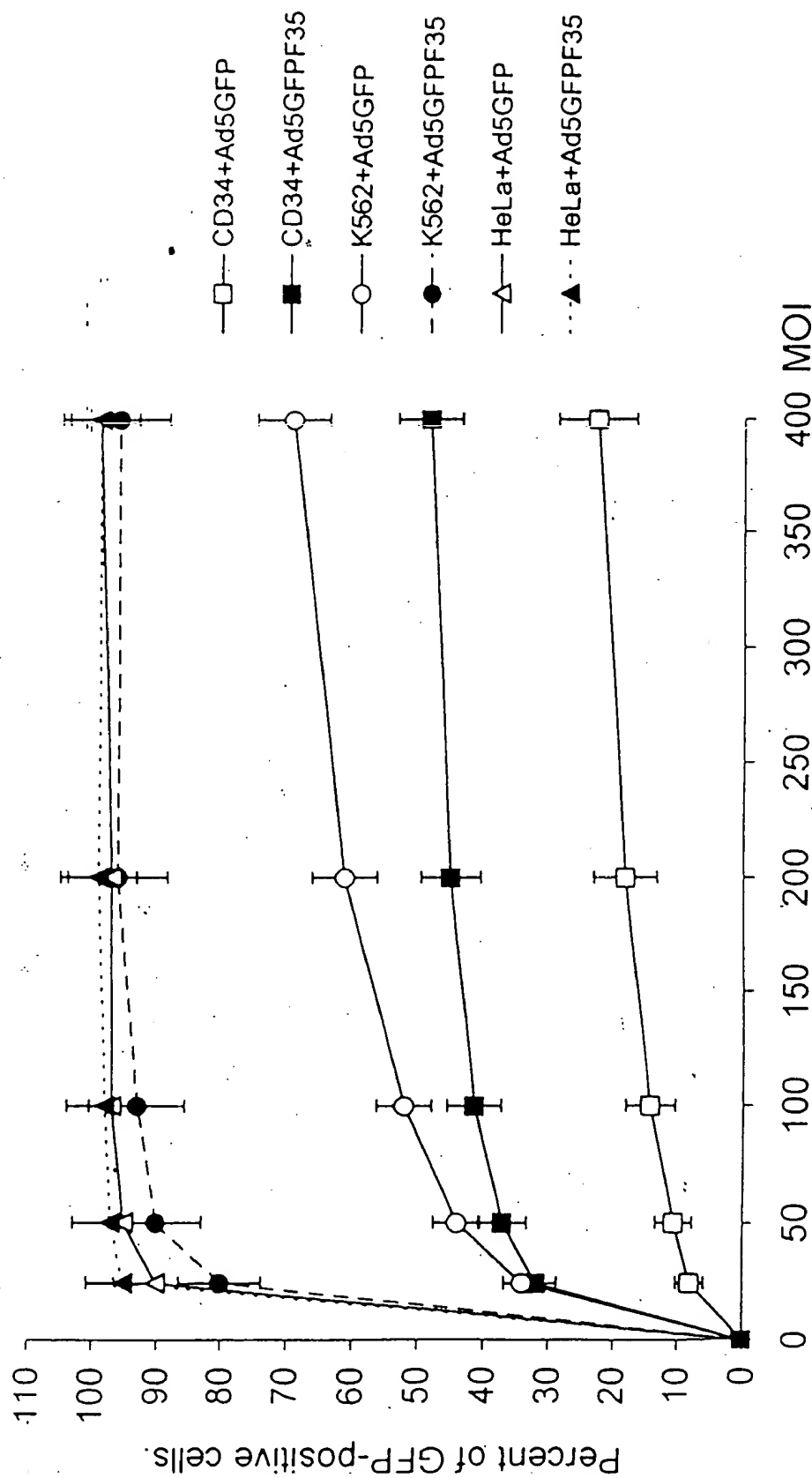


FIG. 21

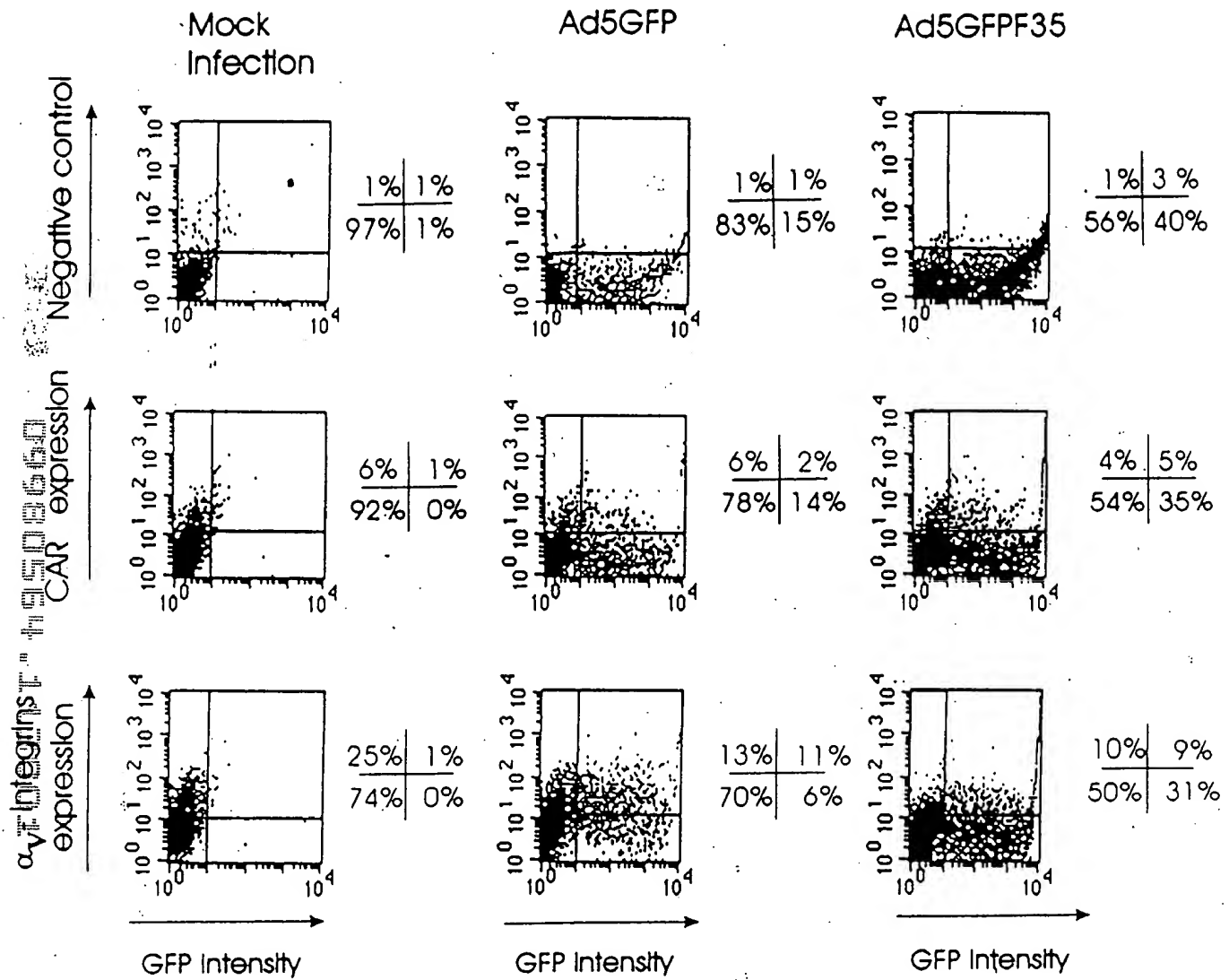


FIG. 22

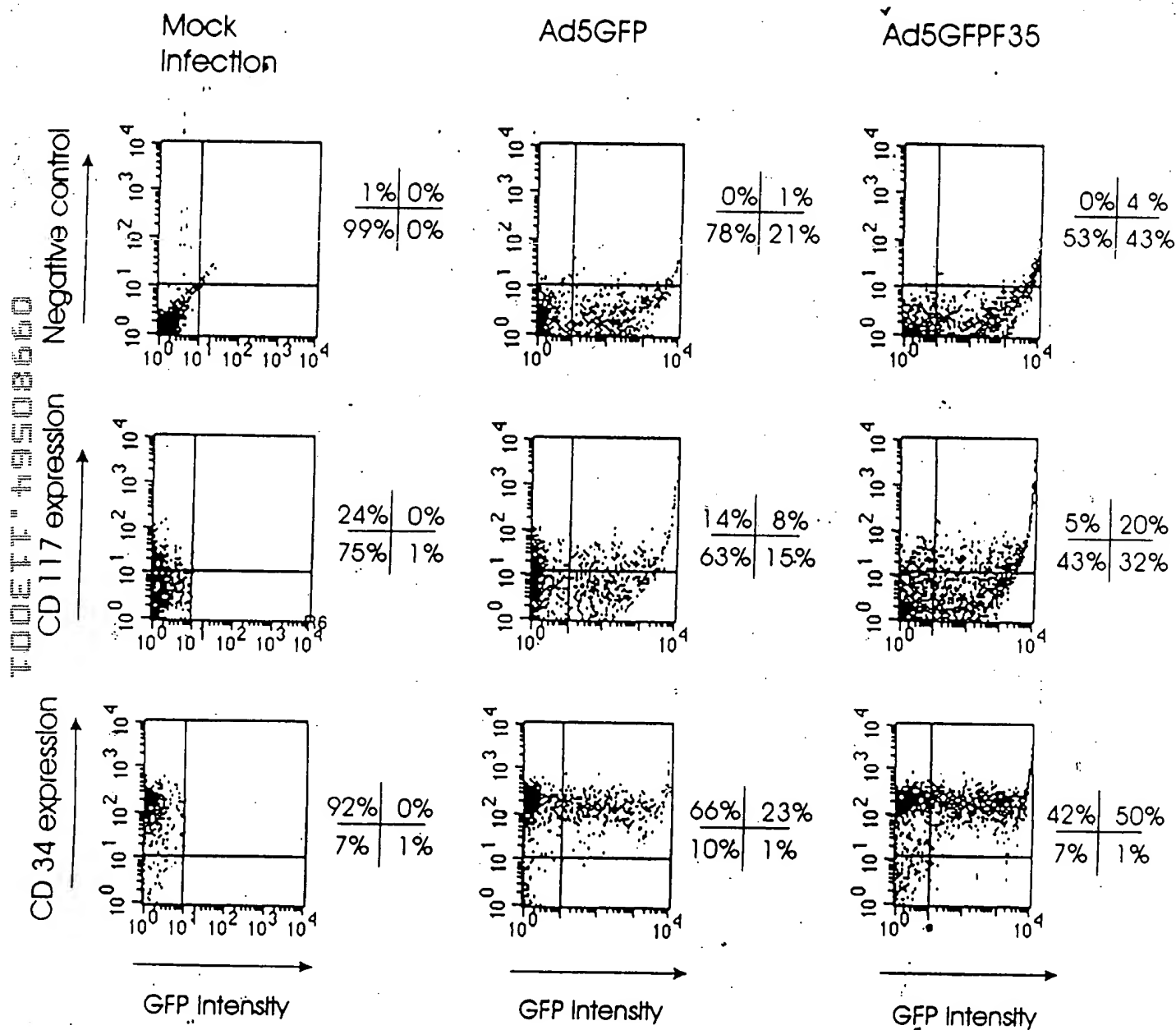


FIG. 23 A

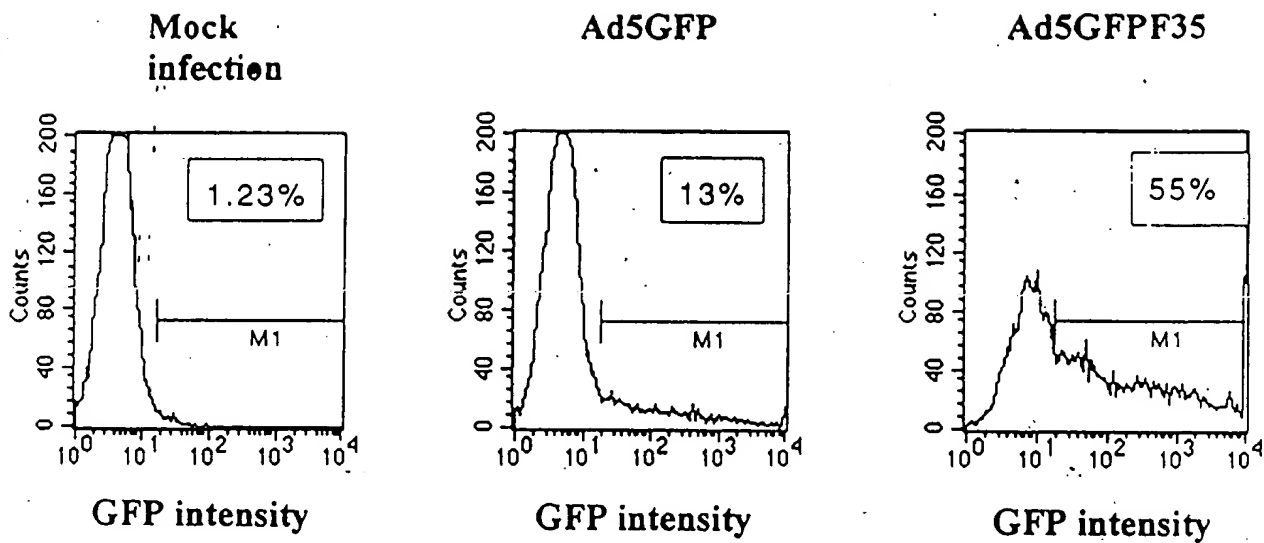


FIG 23 B

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09/980564

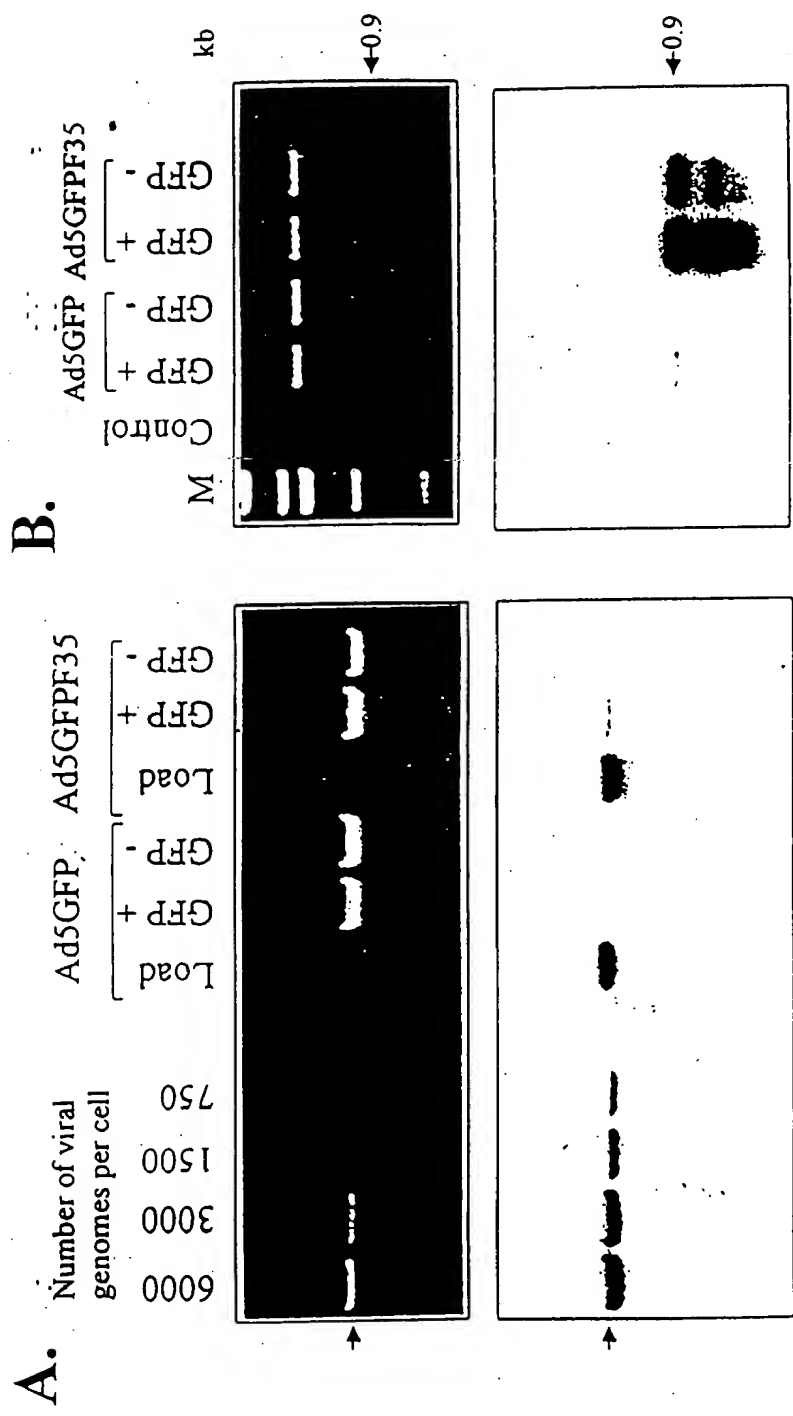


FIG. 24

Adeno vector		Ad SL		Ad 5S		Ad 5/9L		Ad 5/9S		Ad 5/35L		Ad 5/35S	
Binding to CAR		Yes		Yes		Yes		Yes		No		No	
Genome/PFU ratio		13		143		29		582		17		14	
Attachment to/ internalization into													
293		+++		++		++		+/-		+++		+++	
K562		-/+		-/+		-/+		-/-		+++		+++	
Y79		++		+		+		+/-		+		+	
Gene transfer efficiency													
293		+++		++		++		+/-		+++		+++	
K562		-/+		-/+		-/+		-/-		+++		+++	
Y79		++		+		+		+/-		+		+	

FIG. 25

Top view of Adenovirus type 5 fiber knob domain

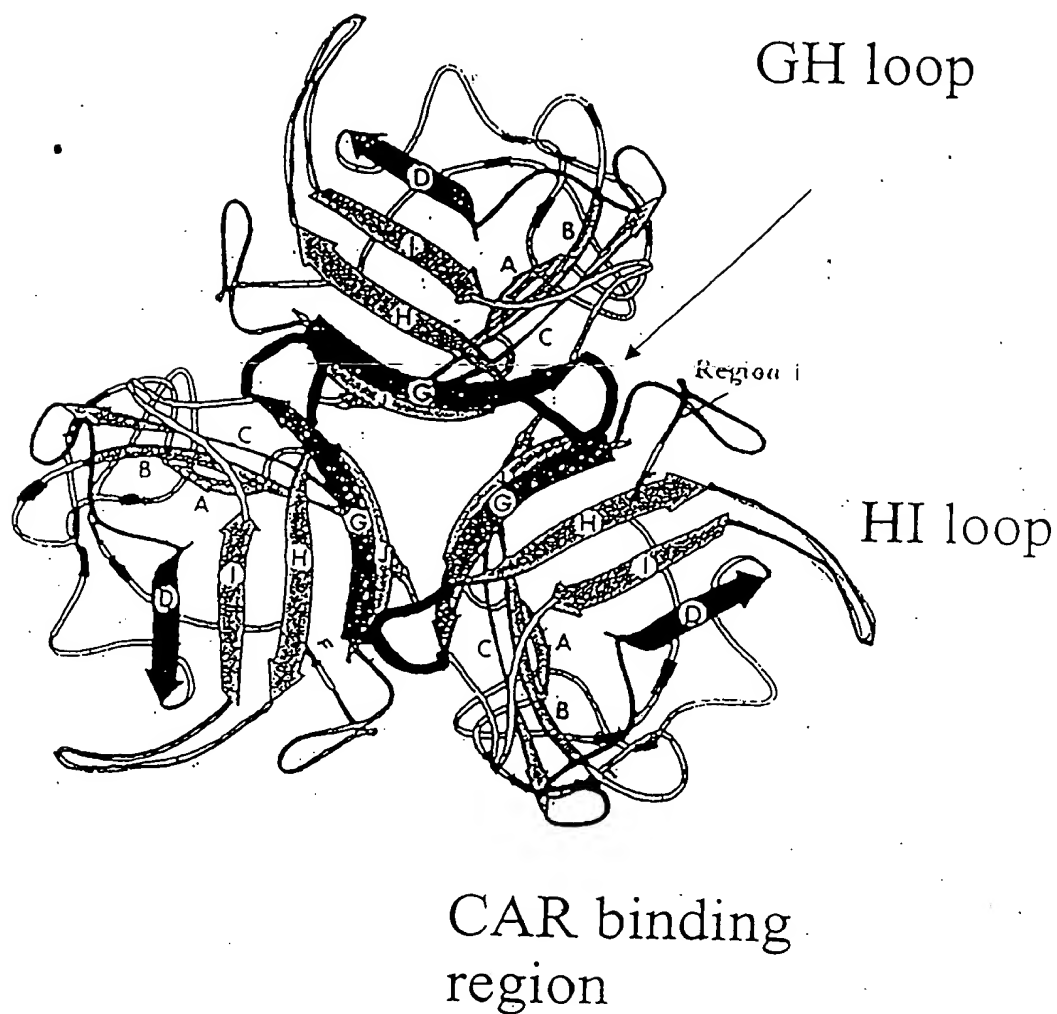
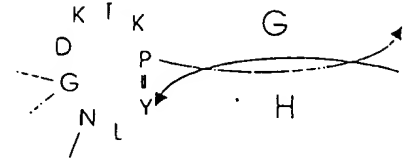


FIG. 26

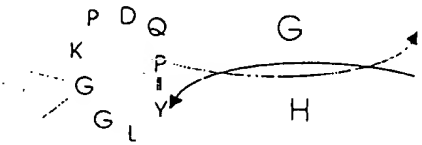
Amino acids composition of wt and modified Adeno 5 GH loop

Adeno 5 wt GH-loop

VY) L N G D K T K [P V

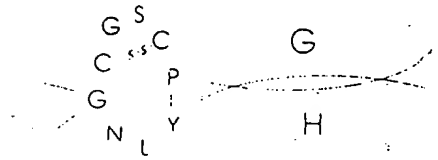
Adeno 5/9 GH-loop
chimera

VY) L G G K P D Q [P V



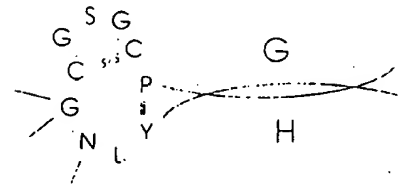
Adeno 5 GH-Cys1

VY) L N G C G S C [P V



Adeno 5 GH-Cys2

VY) L N G C G S G C [P V



Adeno 5 GH-peptide

VY) L N G C G (X) G C [P V

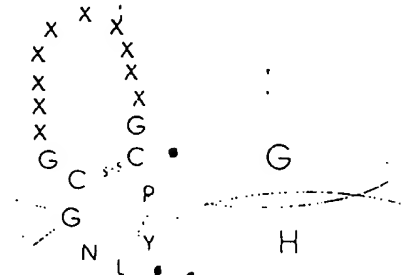


FIG. 27

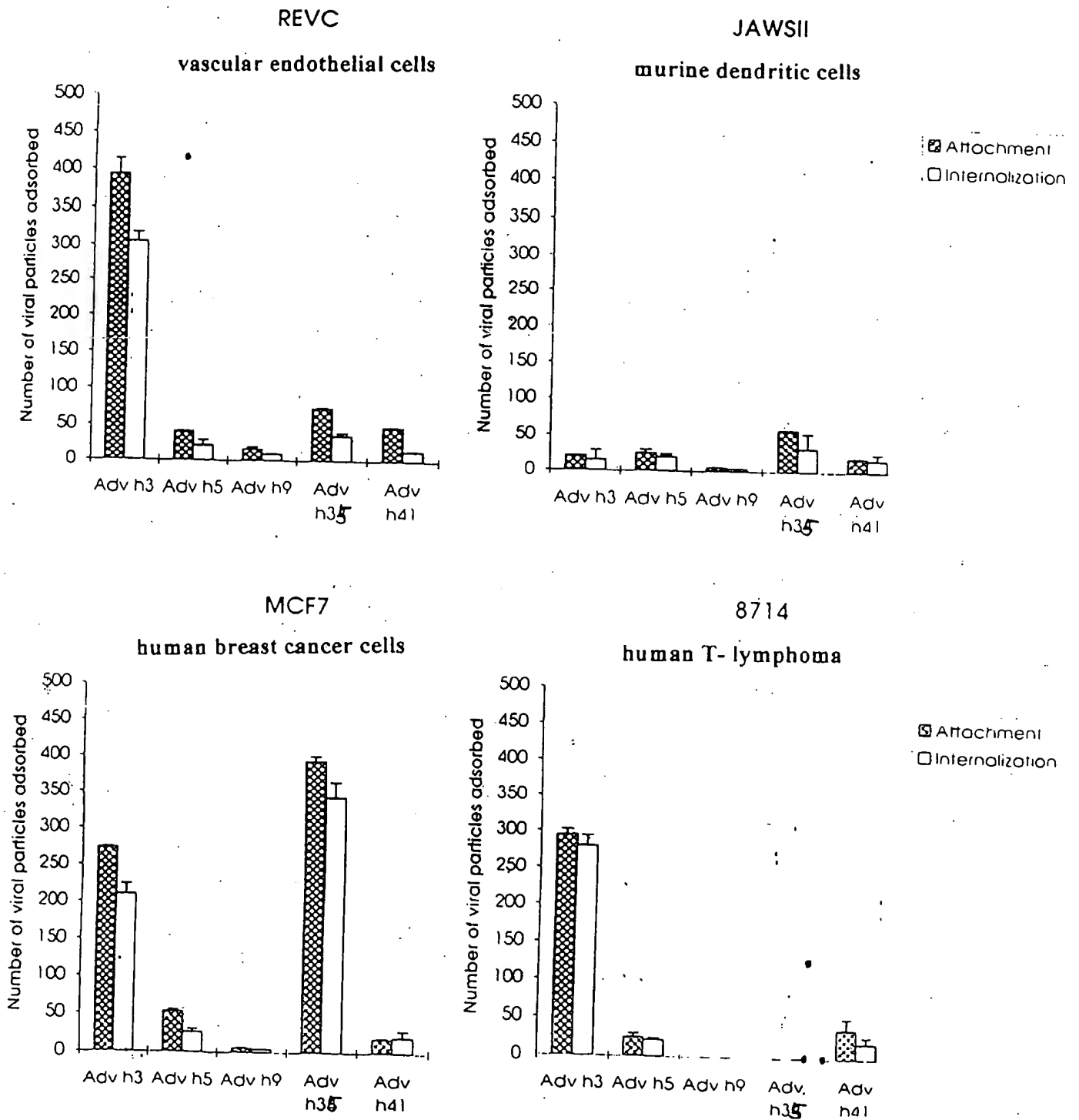
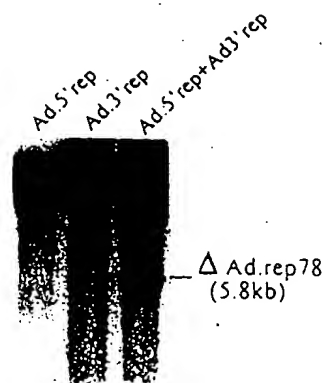
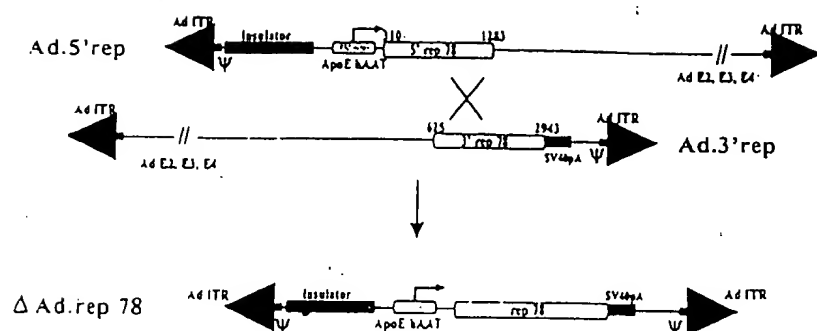


FIG 28



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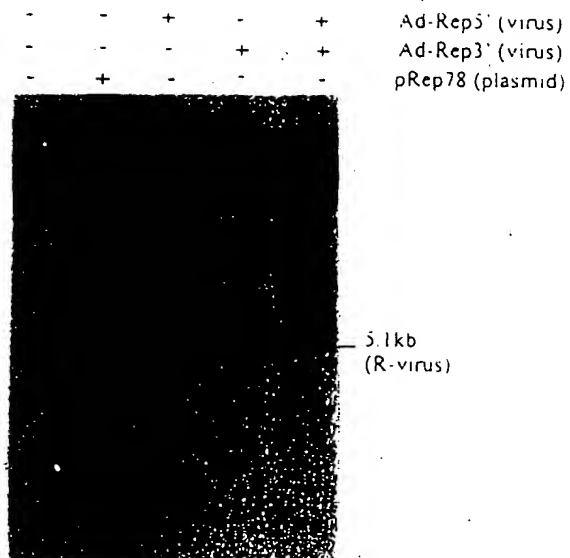
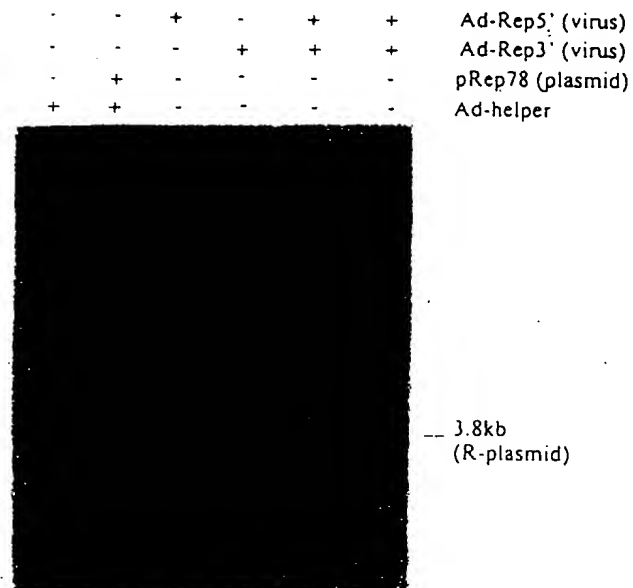


FIG. 29